

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0022] of the specification with the following paragraph:

[0022] Figure 4 shows another embodiment of the disclosed system. In this embodiment, the shielding coils 57, magnets 54 and negative coils 92 are configured in such a way to form the magnetic field 94 shown in Figure 4. Negative coils 92 may be used for main field shaping in short compact magnets. In this embodiment, there is one low fringe field region 86 of less than about 50 gauss. Within this region are the electronics 76 that may be located within an electronics housing 74. There are two relatively high field regions 88 shown in Figure 4 of greater than about 50 gauss. The homogenous magnetic field 84 in this embodiment may be about 45 to 50 cm DSV. Please note the axial scale ~~[[94]]93~~ and radial scale 96 shown in Figure 4. The units to the scales ~~[[94]]93~~, 96 are in centimeters, and the positions and sizes of the shielding coils, magnets and negative coils are to scale relative to the scales ~~[[94]]93~~, 96.